

Figure 1

1/9

1

pel B

MET LYS TYR LEU LEU PRO THR ALA ALA ALA GLY LEU
 AAGCTTGCATGCAAATTCTATTTCAGGAGACAGTCATAA ATG AAA TAC CTA TTG CCT ACG GCA GCC GCT GGA TTG
 TTCTGAACTACGTTAAAGATAAAGTTCTCTGTCACTATT TAC TTT ATG GAT AAC GGA TGC CGT CGG CGA CCT AAC
Hin dIII

77

Sfi I

Pst I

Not I

LEU LEU LEU ALA ALA GLN PRO ALA MET ALA GLU VAL GLN *** *** ALA ALA ALA
 TTA TTA CTC GCG GCC CAG CCG GCC ATG GCC GAG GTG CAA CTG CAG TAA TAG GCG GCC GCA
 AAT AAT GAG CGC CGG GTC GGC CGG TAC CGG GTC CAC GTC GAC GTC ATT ATC CGC CGG CGT

137

GLY GLY GLY GLY SER MET GLU SER ALA LYS GLU THR ARG TYR CYS ALA VAL CYS ASN ASP
 GGG GGA GGA GGG TCC ATG GAA TCT GCC AAG GAG ACT CGC TAC TGT GCA GTG TGC AAT GAC
 CCC CCT CCT CCC AGG TAC CTT AGA CGG TTC CTC TGA GCG ATG ACA CGT CAC ACG TTA CTG

197

TYR ALA SER GLY TYR HIS TYR GLY VAL TRP SER CYS GLU GLY CYS LYS ALA PHE PHE LYS
 TAT GCT TCA GGC TAC CAT TAT GGA GTC TGG TCC TGT GAG GGC TGC AAG GCC TTC TTC AAG
 ATA CGA AGT CCG ATG GTA ATA CCT CAG ACC AGG ACA CTC CGG ACG TTC CGG AAG AAG TTC

257

ARG SER ILE GLN GLY HIS ASN ASP TYR MET CYS PRO ALA THR ASN GLN CYS THR ILE ASP
 AGA AGT ATT CAA GGA CAT AAC GAC TAT ATG TGT CCA GCC ACC AAC CAG TGC ACC ATT GAT
 TCT TCA TAA GTT CCT GTA TTG CTG ATA TAC ACA GGT CGG TGG TTG GTC ACG TGG TAA CTA

317

Oestrogen receptor DBD

LYS ASN ARG ARG LYS SER CYS GLN ALA CYS ARG LEU ARG LYS CYS TYR GLU VAL GLY MET
 AAA AAC AGG AGG AAG AGC TGC CAG GCC TGC CGG CTC CGT AAA TGC TAC GAA GTG GGA ATG
 TTT TTG TCC TCC TTC TCG ACG GTC CGG ACG GCA TTT ACG ATG CTT CAC CCT TAC

377

MET LYS GLY GLY ILE ARG LYS ASP ARG ARG GLY GLY ARG MET LEU LYS HIS LYS ARG GLN
 ATG AAA GGT GGG ATA CGA AAA GAC CGA AGA GGA GGG AGA ATG TTG AAA CAC AAG CGC CAG
 TAC TTT CCA CCC TAT GCT TTT CTG GCT TCT CCT TAC AAC TTT GTG TTC CGG GTC

437

ARG ASP ASP GLY GLU GLY ARG GLY GLU VAL GLY SER *** ***

HRE

Eco RI

AGA GAT GAT GGG GAG GGC AGG GGT GAA GTG GGG TCT TGA TAA TCAGGTCAAGTGCACCTGAGCTAAAATAACACATTCAAG AATTC
 TCT CTA CTA CCC CTC CGG TCC CCA CTT CAC CCC AGA ACT ATT AGTCCAGTCTCACTGGACTCGATTATGTGTAAGTC TTAAG

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Figure 2

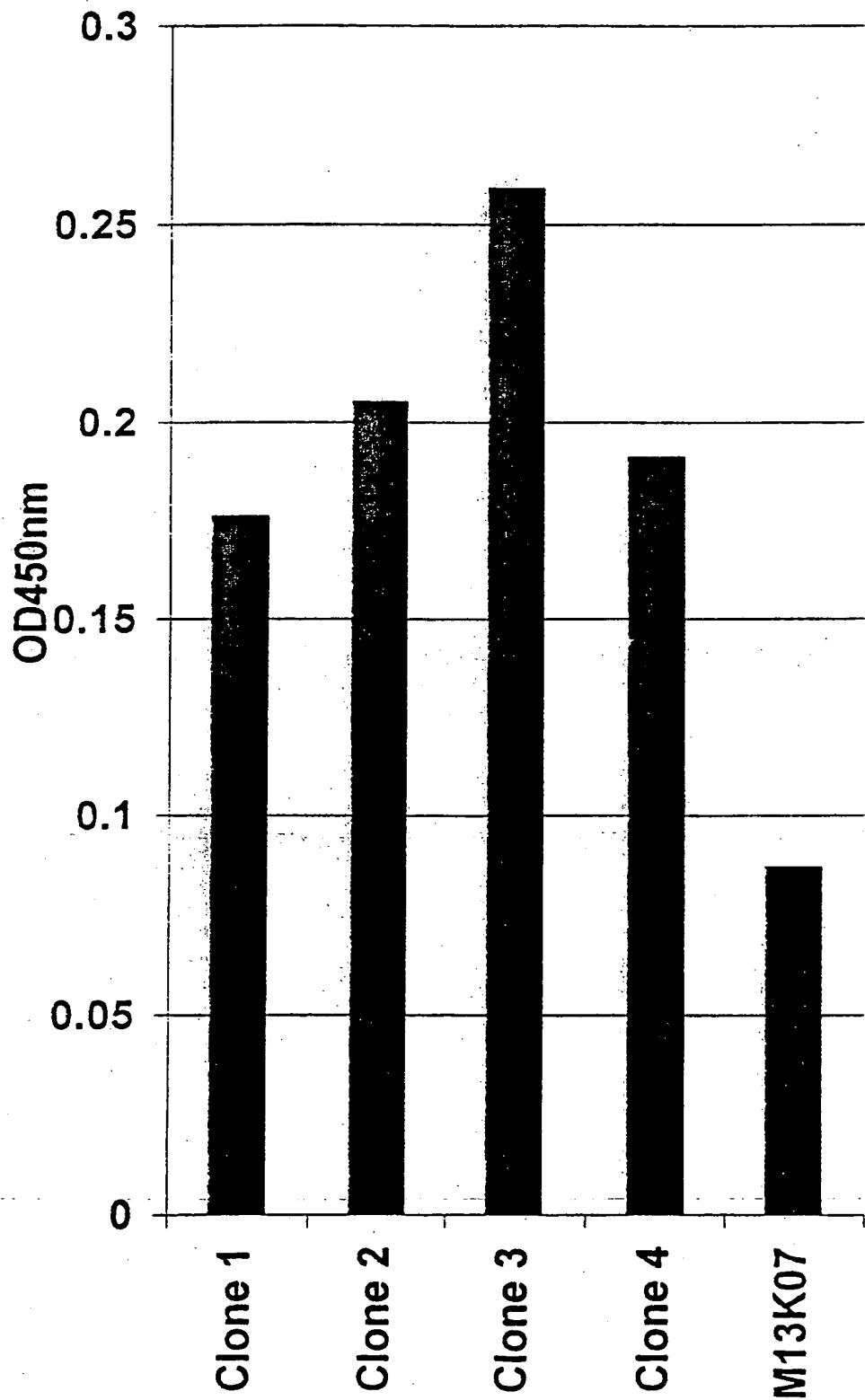


Figure 3

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Human Igk constant region

K R T V A A P S V
AAACGAAC TGTGGCTGCACCA TCTGTC

Clone #2

M A↓Q P T T R P G Q G T R L D I K R T V A A P S V
ATGGCCCAGCCCACCACCGCGTCCGGGCCAAGGGACACGACTGGACATTAAACGAAC TGTGGCTGCACCA TCTGTC

Clone #3

M A↓Q S H H A S G G G T K V E I K R T V A A P S V
ATGGCCCAGTCCCACCACCGCGTCCGGCGGAGGGACCAAGGTGGAGATCAAACGAAC TGTGGCTGCACCA TCTGTC

Human Igk constant region

F I F P P S D E Q L K S G T A S V V C L L N N E Y
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAC TGCCTCTGTTGTGCCTGCTGAATAACTCTAT

Clone #2

F I F P P S D E Q L K S G T A S V V C L L N N F Y
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAC TGCCTCTGTTGTGCCTGCTGAATAACTCTAT

Clone #3

F I F P P S D E Q L K S G T A S V V C L L N N F Y
TTCATCTTCCCGCCATCTGATGAGCAGTTGAAATCTGGAAC TGCCTCTGTTGTGCCTGCTGAATAACTCTAT

Figure 4

4/9 pel B

1 *Hin* dIII

MET LYS TYR LEU LEU PRO THR ALA ALA
AAGCTTGCAT GCAAATTCTA TTTCAAGGAG ACAGTCATAA ATG AAA TAC CTA TTG CCT ACG GCA GCC
TTCGAACGTA CGTTTAAGAT AAAGTTCCCTC TGTCAGTATT TAC TTT ATG GAT AAC GGA TGC CGT CGG

68

Sfi I*Pst* I

ALA GLY LEU LEU LEU ALA ALA GLN PRO ALA MET ALA GLU VAL GLN LEU GLN *** ***
 GCT GGA TTG TTA TTA CTC GCG GCC CAG CCG GCC ATG GCC GAG GTG CAA CTG CAG TAA TAG
 CGA CCT AAC AAT AAT GAG CGC CGG GTC GGC CGG TAC CGG CTC CAC GTT GAC GTC ATT ATC

128 *Not* I

ALA ALA ALA GLY GLY GLY GLY SER MET GLU SER ALA LYS GLU THR ARG TYR CYS ALA VAL
GCG GCC GCA GGG GGA GGA GGG TCC ATG GAA TCT GCC AAG GAG ACT CGC TAC TGT GCA GTG
CGC CGG CGT CCC CCT CCT CCC AGG TAC CTT AGA CGG TTC CTC TGA GCG ATG ACA CGT CAC

188

CYS ASN ASP TYR ALA SER GLY TYR HIS TYR GLY VAL TRP SER CYS GLU GLY CYS LYS ALA
 TGC ART GAC TAT GCT TCA GGC TAC CAT TAT GGA GTC TGG TCC TGT GAG GGC TGC AAG GCC
 ACG TTA CTG ATA CGA AGT CCG ATG GTA ATA CCT CAG ACC AGG ACA CTC CCG ACG TTC CGG

248

PHE PHE LYS ARG SER ILE GLN GLY HIS ASN ASP TYR MET CYS PRO ALA THR ASN GLN CYS
 TTC TTC AAG AGA AGT ATT CAA GGA CAT AAC GAC TAT ATG TGT CCA GCC ACC AAC CAG TGC
 AAG AAG TTC TCT TCA TAA GTT CCT GTA TTG CTG ATA TAC ACA GGT CGG TGG TTG GTC ACG

308

THR ILE ASP LYS ASN ARG ARG LYS SER CYS GLN ALA CYS ARG LEU ARG LYS CYS TYR GLU
 ACC ATT GAT AAA AAC AGG AGG AAG AGC TGC CAG GCC TGC CGG CTC CGT AAA TGC TAC GAA
 TGG TAA CTA TTT TTG TCC TTC TCG ACG GTC CGG ACG GCC GAG GCA TTT ACG ATG CTT

368

368 VAL GLY MET MET LYS GLY GLY ILE ARG LYS ASP ARG ARG GLY GLY ARG MET LEU LYS HIS
 GTG GGA ATG ATG AAA GGT GGG ATA CGA AAA GAC CGA AGA GGA GGG AGA ATG TTG AAA CAC
 CAC CCT TAC TAC TTT CCA CCC TAT GCT TTT CTG GCT TCT CCT CCC TCT TAC AAC TTT GTG

428

LYS ARG GLN ARG ASP ASP GLY GLU GLY ARG GLY GLU VAL GLY SER Ter Ter HRE 1
 AAG CGC CAG AGA GAT GAT GGG GAG GGC AGG GGT GAA GTG GGG TCT TGA TAA TCAGGTCAGAGT
 TTC GCG GTC TCT CTA CTA CCC CTC CCG TCC CCA CTT CAC CCC AGA ACT ATT AGTCCAGTCTCA

491

HRE 1

Sal I

HRE 2

Eco RI

GACCTGAGCTAAAATAACACATTCAAG GTG GAC TTGGGTCA GTCTGACCGGGACAAAGTTAATGTAACCTC GAATTC
 CTGGACTCGATTATTGTGTAAGTC CAGCTG AACCCAGTCAGACTGGCCCTGTTCAATTACATTGGAG CTTAAG

Figure 5

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pel B

1 *HinDIII*

AAGCTTGCAT GCAAATTCTA TTTCAAGGAG ACAGTCATAA ATG AAA TAC CTA TTG CCT ACG GCA GCC
TTCGAACGTA CGTTTAAGAT AAAGTTCCCTC TGTCAGTATT TAC TTT ATG GAT AAC GGA TGC CGT CGG

68

ALA GLY LEU LEU LEU LEU ALA ALA GLN PRO ALA MET ALA GLU MET GLU SER ALA LYS GLU
 GCT GGA TTG TTA TTA CTC GCG GCC CAG CCG GCA ATG GCC GAG ATG GAA TCT GCC AAG GAG
 CGA CCT AAC AAT AAT GAG CGC CGG GTC GGC CGT TAC CGG CTC TAC CTT AGA CGG TTC CTC
 128

THR ARG TYR CYS ALA VAL CYS ASN ASP TYR ALA SER GLY TYR HIS TYR GLY VAL TRP SER
 ACT CGC TAC TGT GCA GTG TGC AAT GAC TAT GCT TCA GGC TAC CAT TAT GGA GTC TGG TCC
 TGA GCG ATG ACA CGT CAC ACG TTA CTG ATA CGA AGT CCG ATG GTA ATA CCT CAG ACC AGG
 188

CYS GLU GLY CYS LYS ALA PHE PHE LYS ARG SER ILE GLN GLY HIS ASN ASP TYR MET CYS
 TGT GAG GGC TGC AAG GCC TTC TTC AAG AGA AGT ATT CAA GGA CAT AAC GAC TAT ATG TGT
 ACA CTC CCG ACG TTC CGG AAG AAG TTC TCT TCA TAA GTT CCT GTA TTG CTG ATA TAC ACA
 248

PRO ALA THR ASN GLN CYS THR ILE ASP LYS ASN ARG ARG LYS SER CYS GLN ALA CYS ARG
 CCA GCC ACC AAC CAG TGC ACC ATT GAT AAA AAC AGG AGG AAG AGC TGC CAG GCC TGC CGG
 GGT CGG TGG TTG GTC ACG TGG TAA CTA TTT TTG TCC TCC TTC TCG ACG GTC CGG ACG GCC
 308

LEU ARG LYS CYS TYR GLU VAL GLY MET MET LYS GLY GLY ILE ARG LYS ASP ARG ARG GLY
 CTC CGT AAA TGC TAC GAA GTG GGA ATG ATG AAA GGT GGG ATA CGA AAA GAC CGA AGA GGA
 GAG GCA TTT ACG ATG CTT CAC CCT TAC TAC TTT CCA CCC TAT GCT TTT CTG GCT TCT CCT
 368

GLY ARG MET LEU LYS HIS LYS ARG GLN ARG ASP ASP GLY GLU GLY ARG GLY GLU VAL GLY
 GGG AGA ATG TTG AAA CAC AAG CGC CAG AGA GAT GAT GGG GAG GGC AGG GGT GAA GTG GGG
 CCC TCT TAC AAC TTT GTG TTC GCG GTC TCT CTA CTA CCC CTC CCG TCC CCA CTT CAC CCC

428

Sfi I

Pst I

Not I

SER GLY GLY GLY GLY SER ALA GLN PRO ALA LEU LEU GLN LEU ALA ALA ALA TER
 TCT GGG GGA GGA GGG TCG GCC CAG CCG GCC CTC CTG CAG CTG GCG GCC GCA TAACTGATTG
 AGA CCC CCT CCT CCC AGC CGG GTC GGC CGG GAG GAC GTC GAC CGC CGG CGT ATTGACTAAC

489 Sal I

Eco RI

AGTCGAC TTG GGTCA~~G~~GTCTG ACCGGGACAA AGTTAATGTA ACCTC GAATT
TCAGCTGAAC CCAGTCAGAC TGGCCCTGTT TCAATTACAT TGGAG CTTAAG

HRE

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Figure 6

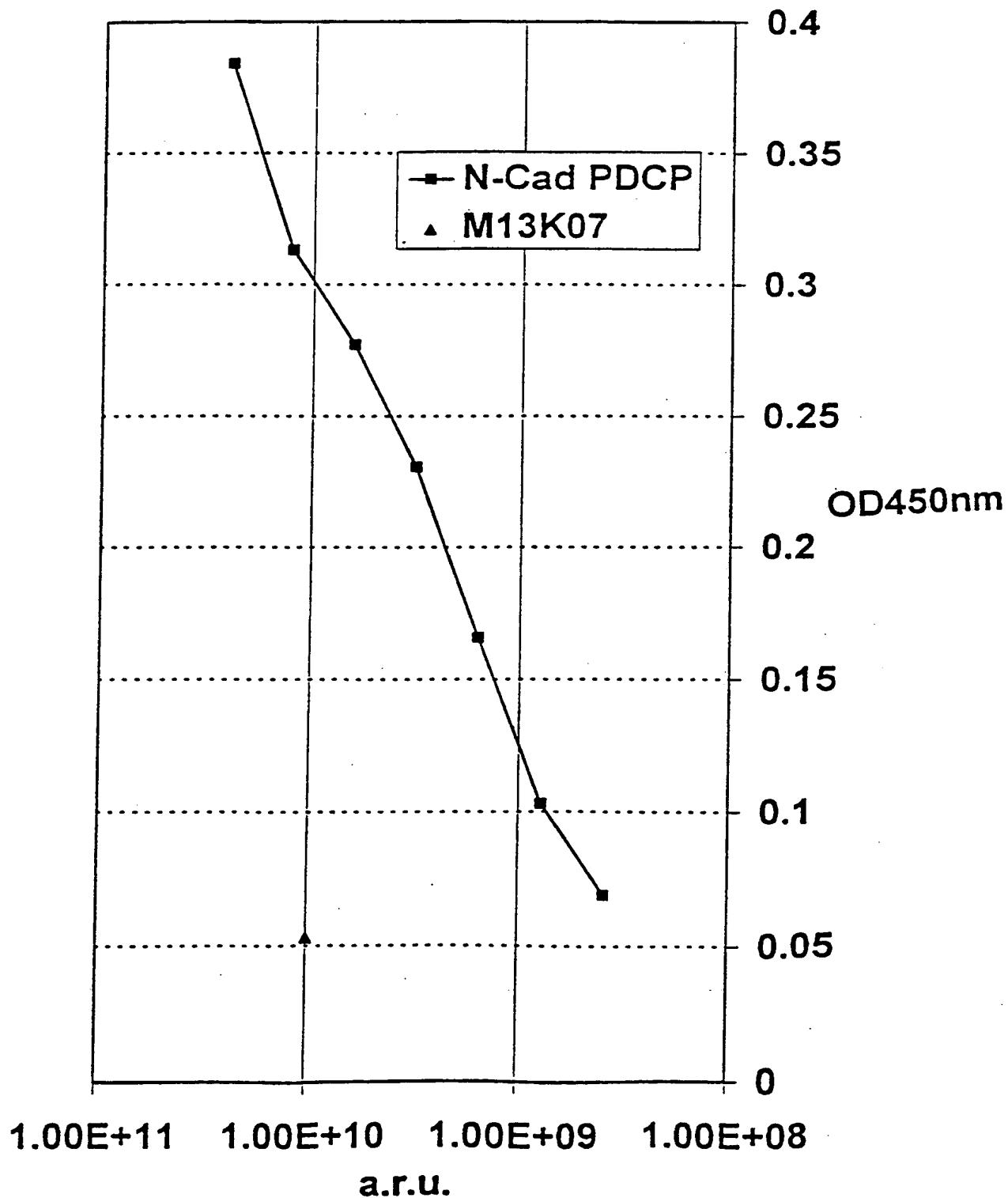
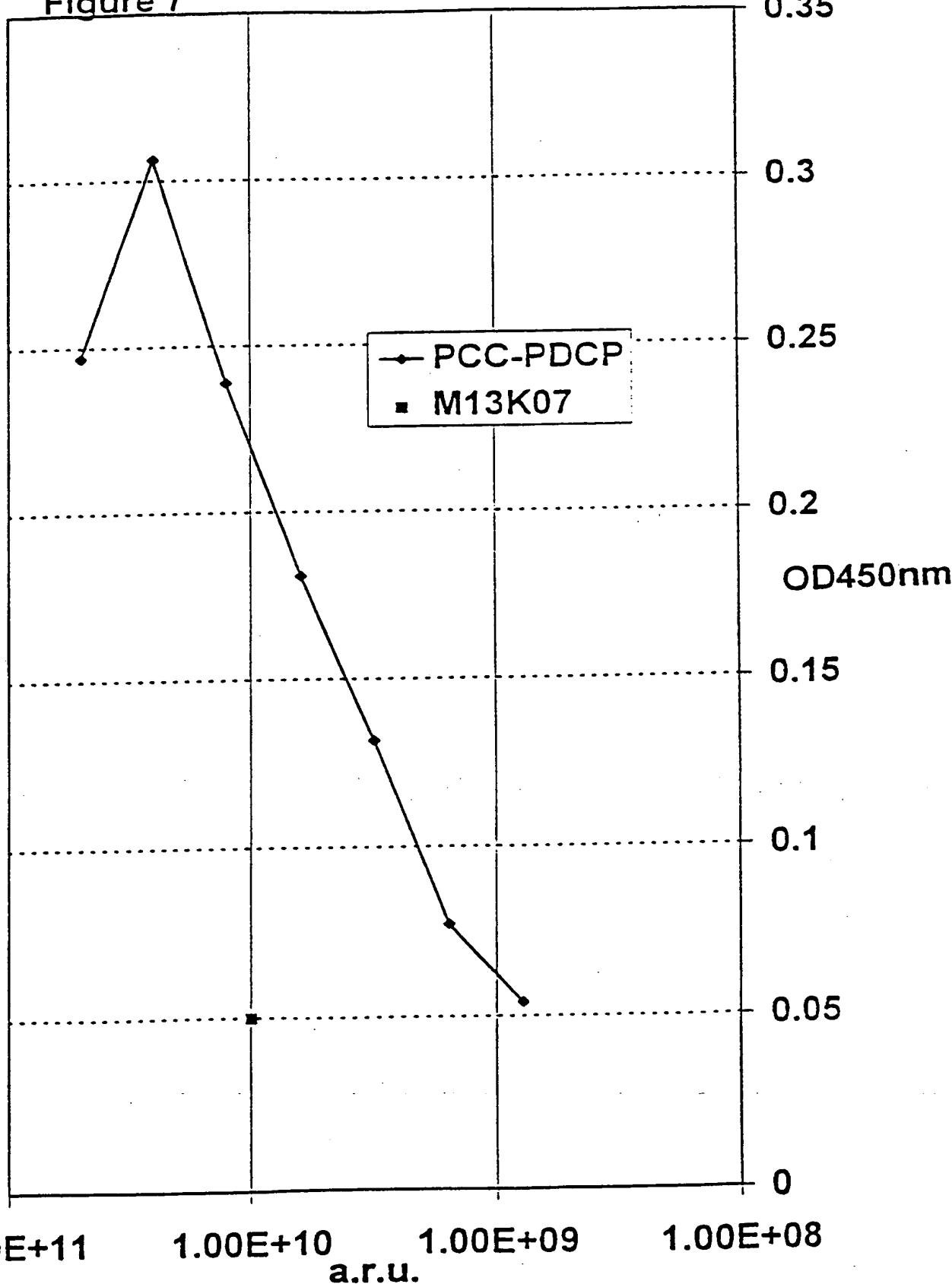
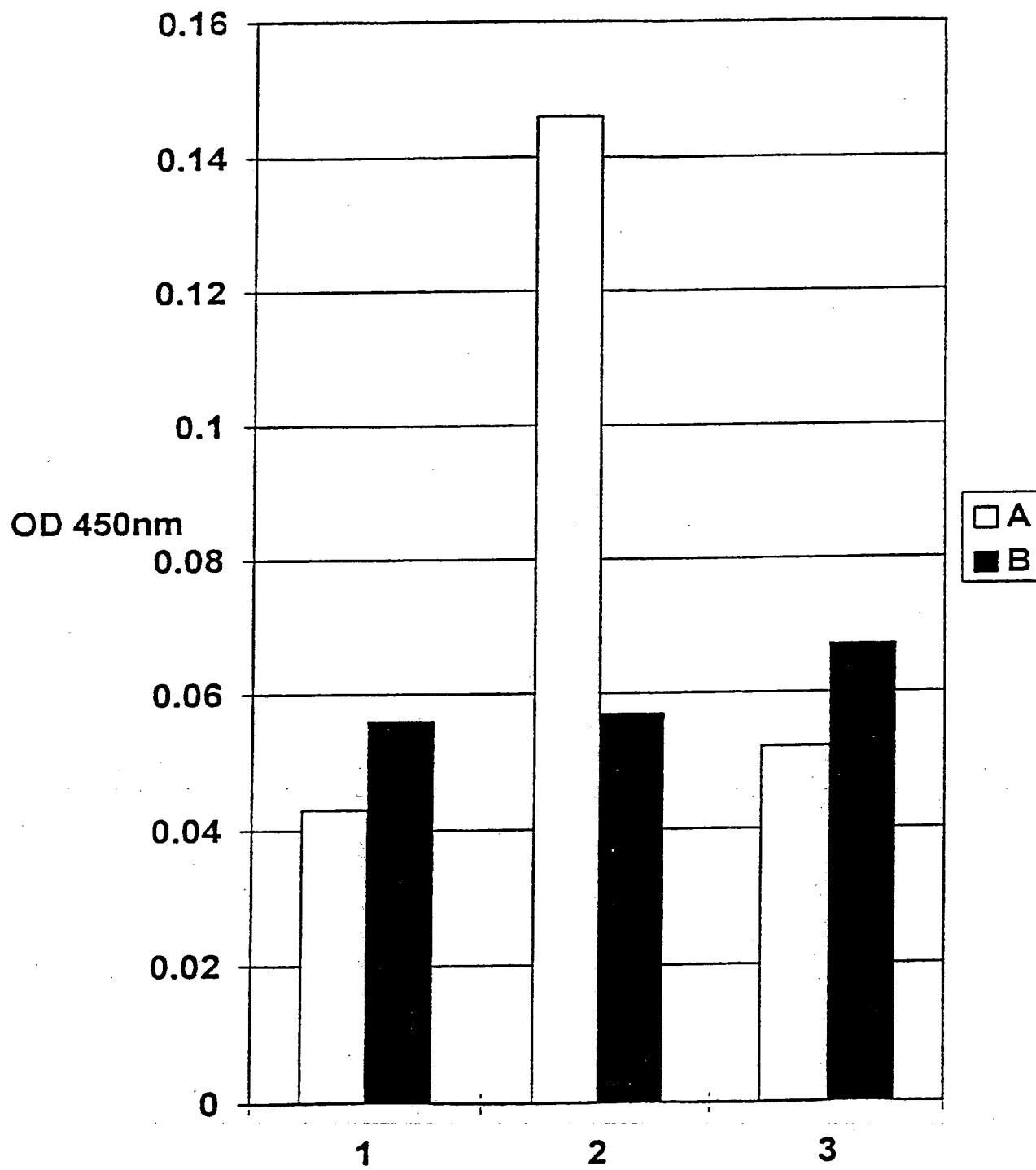


Figure 7



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Figure 8



HEAVY CHAIN

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Figure 9

Q V Q L Q Q S G G G V V Q P G R S L
 CAGGTACAGCTGCAGCAGTCAGGGGGAGGCAGTGGTCCAGCCTGGGAGGTCCCTG
 GTCCATGTCGACGTCGTCACTCCCCCTCCGACCCAGGTGGACCCCTCCAGGGAC
 R L S C A A S G F P F S T Y G M H W
 AGACTCTCCTGTGCAGCCTCGGGATTCCCCCTTAGTACTTATGGCATGCACTGG
 TCTGAGAGGACACGTCGGAGCCCTAAGGGAAATCATGAATACCGTACGTGACC
 R Q A V P G K G L E W V A V I S Y D
 CGCCAGGCTGTCCCAGGCAAGGGCTGGAGTGGTGGCAGTTATATCATATGAT
 GCGGTCCGACAGGGTCCGTTCCCCGACCTCACCCACCGTCAATATAGTATACTA
 G S N K Y Y A D S V K G R F T I S R
 GGAAGTAATAAAATACCTACCCAGACTCCGTGAAGGGCCGATTACCATCTCCAGA
 CCTTCATTATTTATGATGCGTCTGAGGCACCTCCGGCTAAGTGGTAGAGGTCT
 D N S K N T L Y L Q M N S L R A E D
 GACAATTCCAAGAACACGGTGTATCTGCAAATGAACAGCCTGAGAGCTGAGGAC
 CTGTTAAGGTCTTGTGCAACATAGACGTTACTTGTGGACTCTGACTCCTG
 T A V Y Y C A R D L D P T R Y S S G
 ACGGCTGTGTATTACTGTGCGAGAGATTAGACCCCACCAAGGTATAGCAGTGGC
 TGCCGACACATAATGACACGCTCTCAAATCTGGGTGGTCCATATCGTACCG
 W D T D Y W G Q G H L V T V S S
 TGGGACACTGACTACTGGGCCAGGGCACCTGGTCACTGTCTCCTCA
 ACCCTGTGACTGATGACCCGGTCCCCGTGGACCAAGTGACAGAGGAGT

LIGHT CHAIN

E T T L T Q S P G T L S L S P G E R
 GAAACGACACTCACGCAGTCTCCAGGCACCCCTGTCTTGTCTCCGGGGAAAGA
 CTTTGCTGTGAGTGGTCAAGAGGTCCGTGGACAGAAACAGAGGCCCTTCT
 A T L S C R A S Q N I G S S S L A W
 GCCACCCCTCTGCAAGGGCCAGTCAGAATATTGGCAGCAGCTCCTAGCCTGG
 CGGTGGGAGAGGACGTCCGGTCAGTCTATAACCCTCGAGGAATCGGACC
 Y Q Q K P G Q A P R L L I Y G A S T
 TACCAACAGAACCTGGCCAGGCTCCAGGCTCCTCATCTATGGTGCATCCACC
 ATGGTTGTCTTGGACCGGTCCGAGGGTCCGAGGAGTAGATAACCACGTAGGTGG
 R A T G F S G S G S G T Q F T L T I
 AGGGCCACTGGTTCACTGGCAGTGGTCAGGGACACAATTCACTCTCACCATC
 TCCCGGTGACCAAAGTCACCGTCACCCAGTCCCTGTGTTAAGTGAGAGTGGTAG
 I P A R S S L Q S E D F A V Y Y C Q
 ATCCCAGCCAGGAGCAGCCTGCAGTCTGAAGATTTGCAGTTATTACTGTCA
 TAGGGTCGGTCCTCGTCGGACGTCAAGACTCTAAAACGTCAAATAATGACAGTC
 Q Y N F W P F T F G P G T K L E I K
 CAGTATAATTCTGGCCATTCACTTTGGCCCTGGGACCAAGCTGGAGATCAA
 GTCATATTAAGACCGGTAAAGTAAAACCGGGACCCTGGTTCGACCTCTAGTT
 R
 CGT
 GCA